MCL

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parlang.kernel

Kernel of a parallel program.

The general idea is to not have explicit expressions, but use Lean functions to compute values. What we are explicit global loads and stores.

Σ is constructor where the second argument may depend on the type of the first (in this case i). Can be constructed using ⟨...⟩

parlang.memory

Memory view

parlang.thread_state

Thread state inclusing a global memory view , the list of loads and stores tells what should differ between differnet threads.

parlang.state

Global program state

parlang.exec_state

Execute a kernel on a global state, i.e. a list of threads

5 rel_hoare.lean